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FULL ESTIMATED COST	12.52	184.35
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
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FILE 'REGISTRY' ENTERED AT 11:42:49 ON 12 SEP 2006  
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STRUCTURE FILE UPDATES: 11 SEP 2006 HIGHEST RN 906423-10-7  
DICTIONARY FILE UPDATES: 11 SEP 2006 HIGHEST RN 906423-10-7

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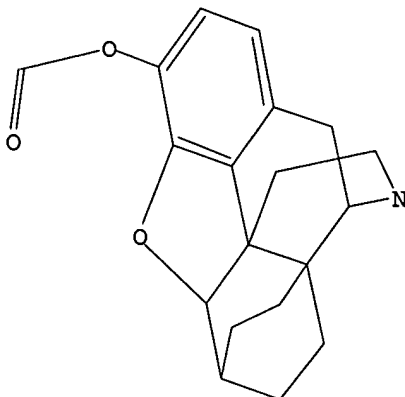
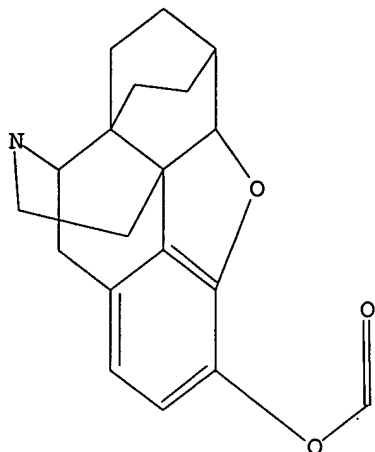
Uploading C:\Program Files\Stnexp\Queries\10645557-2.str

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l5

SAMPLE SEARCH INITIATED 11:43:27 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 11 TO 389

PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s l5 ful

FULL SEARCH INITIATED 11:43:32 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 154 TO ITERATE

100.0% PROCESSED 154 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

L7 2 SEA SSS FUL L5

=> d his

(FILE 'HOME' ENTERED AT 11:38:13 ON 12 SEP 2006)

10645557

12/09/2006

Page 3

FILE 'REGISTRY' ENTERED AT 11:38:29 ON 12 SEP 2006  
L1 STRUCTURE UPLOADED  
L2 0 S L1  
L3 2 S L1 FUL

FILE 'CAPLUS' ENTERED AT 11:40:00 ON 12 SEP 2006  
L4 2 S L3

FILE 'REGISTRY' ENTERED AT 11:42:49 ON 12 SEP 2006  
L5 STRUCTURE UPLOADED  
L6 0 S L5  
L7 2 S L5 FUL

=> s l7 not l3  
L8 0 L7 NOT L3

10645557

<http://www.cas.org/infopolicy.html>

=> s l3

L4 2 L3

=> d abs bib hitstr 1-2

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Claimed are buprenorphine monocarboxylates I [R = linear or branched (un)saturated aliphatic group optionally substituted with aryl, or aryl optionally substituted with linear or branched (un)saturated aliphatic group; with the proviso that R is not selected from Me, Et, Pr, Bu, pentyl, hexyl, CH(Me)2], and buprenorphine dicarboxylic acid diesters II [R1 = divalent group derived from (un)saturated aliphatic group optionally substituted with Ph], which exert a longer analgesic effect as compared with buprenorphine hydrochloride. Also claimed are the processes for preparation of I and II, and long-acting analgesic pharmaceutical compns. containing  $\geq 1$  selected from buprenorphine, I, and II and oily vehicles, and a method to bring analgesia by administering the compns. to animals or human. A composition containing II (R1 = sebacyl), prepared from buprenorphine

(HCl) and sebacyl chloride, and sesame oil exhibited analgesic duration for 96 h at 0.3  $\mu\text{mol/kg}$  i.m.

AN 2004:512395 CAPLUS

DN 141:59722

TI Buprenorphine monocarboxylic or dicarboxylic acid derivatives, their preparations, long-acting analgesic compositions containing them, and analgesia using them

IN Wang, Jhi-Joung

PA Chimei Hospital, Taiwan

SO Jpn. Kokai Tokkyo Koho, 86 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004175706	A2	20040624	JP 2002-342688	20021126
PRAI	JP 2002-342688		20021126		

OS MARPAT 141:59722

IT 693242-79-4P, Dibuprenorphine pimelate 693242-80-7P,

Dibuprenorphine sebacyl ester

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of buprenorphine monocarboxylic or dicarboxylic acid esters and long-acting analgesic compns. containing them)

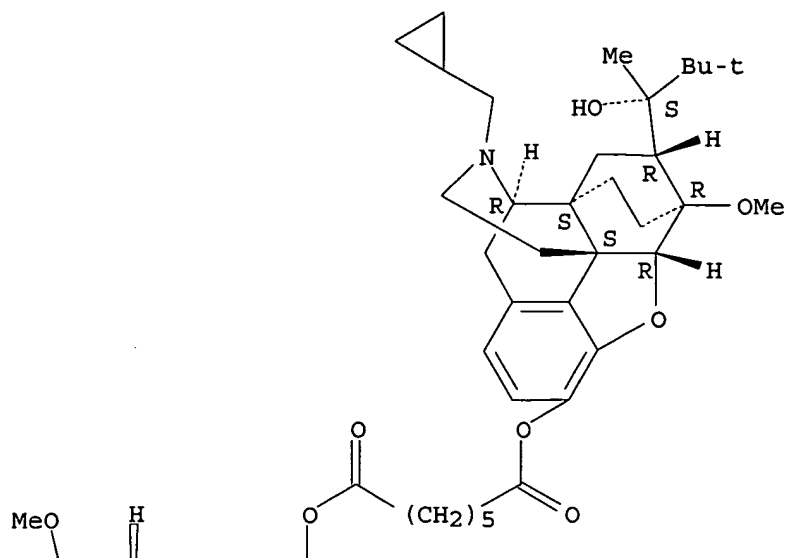
RN 693242-79-4 CAPLUS

CN 6,14-Ethenomorphinan-7-methanol, 3,3'-[(1,7-dioxo-1,7-heptanediyl)bis(oxy)]bis[17-(cyclopropylmethyl)- $\alpha$ -(1,1-

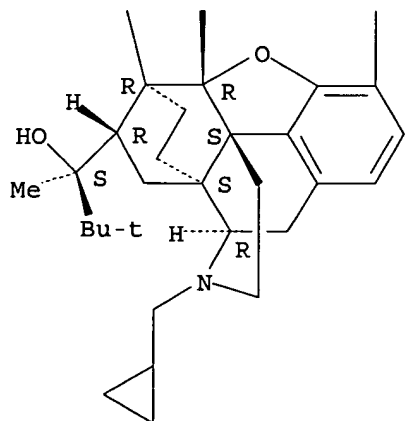
dimethylethyl)-4,5-epoxy-18,19-dihydro-6-methoxy- $\alpha$ -methyl-,  
 ( $\alpha$ S,5 $\alpha$ ,7 $\alpha$ )-( $\alpha'$ S,5' $\alpha$ ,7' $\alpha$ )-(9CI) (CA  
 INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



RN 693242-80-7 CAPLUS  
 CN 6,14-Ethenomorphinan-7-methanol, 3,3'-[(1,10-dioxo-1,10-decanediyl)bis(oxy)]bis[17-(cyclopropylmethyl)- $\alpha$ -(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-6-methoxy- $\alpha$ -methyl-,  
 ( $\alpha$ S,5 $\alpha$ ,7 $\alpha$ )-( $\alpha'$ S,5' $\alpha$ ,7' $\alpha$ )-(9CI) (CA

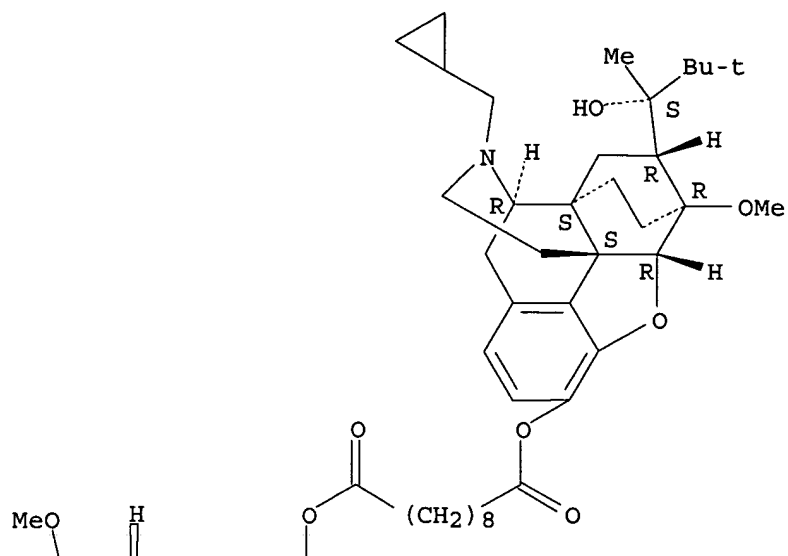
12/09/2006

Page 3

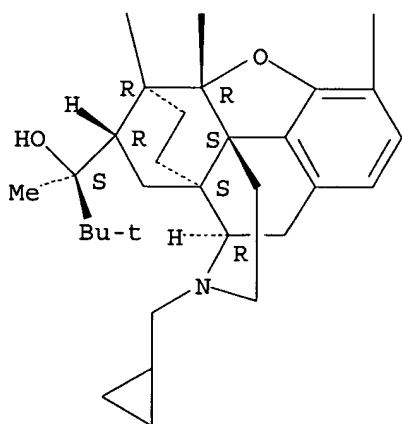
INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
GI

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\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Disclosed herein are novel buprenorphine monocarboxylic ester derivs., such as I [R = straight-chain or branched saturated or unsatd. aliphatic group optionally substituted with an aryl group, or an aryl group optionally substituted with straight-chain or branched saturated or unsatd. aliphatic group;

with the proviso that R is not selected from Me, Et, (CH)<sub>2</sub>Me, (CH)<sub>3</sub>Me, (CH)<sub>4</sub>Me, (CH)<sub>5</sub>Me, CH(Me)<sub>2</sub>], and dibuprenorphine dicarboxylic ester derivs., such as II [R<sub>1</sub> = divalent moiety of a saturated or unsatd. aliphatic group optionally substituted with Ph group], which exert a longer analgesic effect as compared to buprenorphine hydrochloride. Also disclosed are the processes for synthesizing I and II, and long-acting analgesic pharmaceutical compns. containing a compound selected from buprenorphine base and the novel ester derivs. of buprenorphine. Thus, dibuprenorphine pimelate II [R<sub>1</sub> = (CH<sub>2</sub>)<sub>5</sub>], prepared by the reaction of buprenorphine hydrochloride and pimelic dichloride, exhibited analgesic duration for 72 h at a dose of 0.3μM/kg.

AN 2004:427626 CAPLUS

DN 140:423853

TI Preparation and long acting analgesic pharmaceutical composition of ester derivs. of buprenorphine

IN Wang, Jhi-joung

PA Chi Mei Foundation Medical Center, Taiwan

SO Eur. Pat. Appl., 51 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1422230	A1	20040526	EP 2002-258083	20021125
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	CN 1500786	A	20040602	CN 2003-178705	20030715
	US 2005075361	A1	20050407	US 2003-645557	20030822
PRAI	US 2002-291614	A	20021112		
	EP 2002-258083	A	20021125		

OS MARPAT 140:423853

IT 693242-79-4P, Dibuprenorphine pimelate 693242-80-7P, Dibuprenorphine sebacoyl ester

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

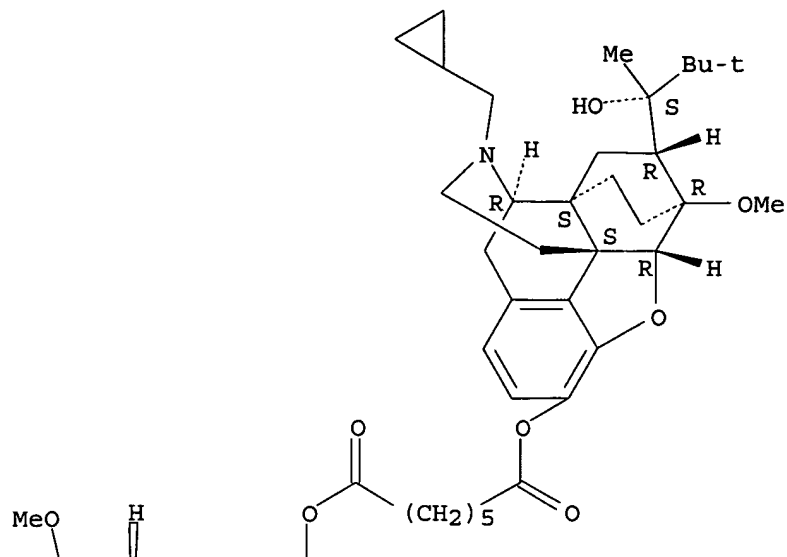
(preparation and analgesic pharmaceutical composition of ester derivs. of buprenorphine)

RN 693242-79-4 CAPLUS

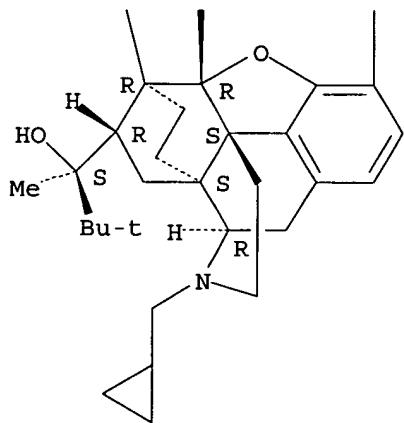
CN 6,14-Ethenomorphinan-7-methanol, 3,3'-[(1,7-dioxo-1,7-heptanediyl)bis(oxy)]bis[17-(cyclopropylmethyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-6-methoxy-α-methyl-, (αS,5α,7α)-(α'S,5'α,7'α)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



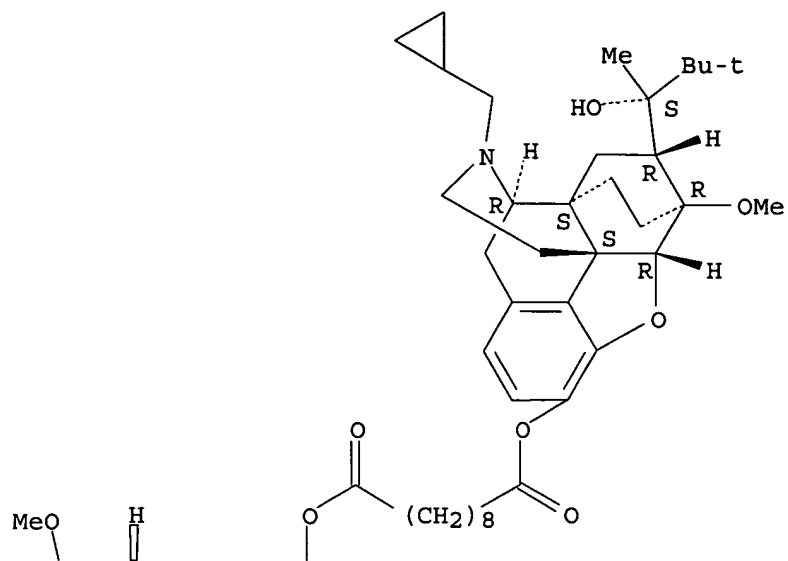
RN 693242-80-7 CAPLUS

CN 6,14-Ethenomorphinan-7-methanol, 3,3'-[(1,10-dioxo-1,10-decanediyl)bis(oxy)]bis[17-(cyclopropylmethyl)- $\alpha$ -(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-6-methoxy- $\alpha$ -methyl-, ( $\alpha$ S,5 $\alpha$ ,7 $\alpha$ )-( $\alpha'$ S,5' $\alpha$ ,7' $\alpha$ )- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-A



PAGE 2-A

